

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564528

Luminaire Tested: **SQ4-PW1-025U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564528
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-050D-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

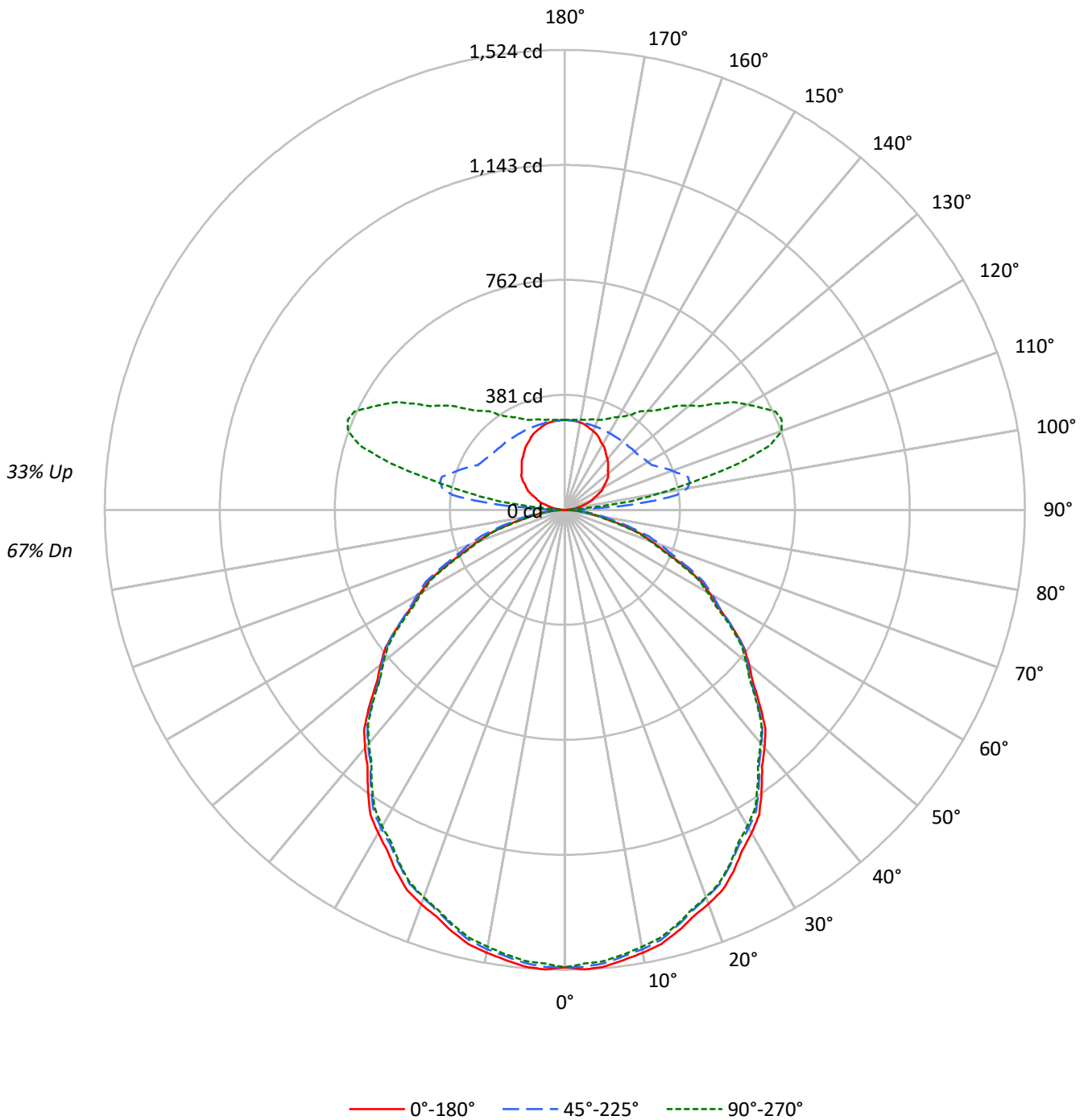
Lumens per Lamp: N/A
Luminaire Lumens: 5789.5 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5625
55°	5445	5445	5359
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2768
85°	1768	2615	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	2.5
10°-20°	402.9	7.0
20°-30°	597.7	10.3
30°-40°	699.3	12.1
40°-50°	696.2	12.0
50°-60°	601.2	10.4
60°-70°	432.8	7.5
70°-80°	226.9	3.9
80°-90°	57.9	1.0
90°-100°	145.3	2.5
100°-110°	381.9	6.6
110°-120°	396.0	6.8
120°-130°	317.6	5.5
130°-140°	249.2	4.3
140°-150°	191.3	3.3
150°-160°	137.8	2.4
160°-170°	84.3	1.5
170°-180°	28.5	0.5
0°-30°	1143.3	19.7
0°-40°	1842.7	31.8
0°-60°	3140.1	54.2
0°-90°	3857.7	66.6
90°-120°	923.2	15.9
90°-150°	1681.3	29.0
90°-180°	1932.0	33.4
0°-180°	5789.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1520	1503	1508	1504	1501	144
15°	1446	1428	1430	1427	1425	408
25°	1322	1300	1298	1290	1294	608
35°	1136	1121	1120	1110	1114	710
45°	913	906	901	899	897	705
55°	677	676	677	668	666	604
65°	429	442	450	432	418	425
75°	198	216	227	212	192	212
85°	33	44	49	47	44	44
90°	2	6	15	8	8	3
95°	19	75	250	129	88	21
105°	69	104	422	641	598	73
115°	122	148	338	675	770	121
125°	170	191	308	520	613	151
135°	202	223	298	420	476	157
145°	235	250	294	358	386	147
155°	266	273	294	323	332	122
165°	287	290	294	306	310	81
175°	298	298	296	300	300	28
180°	298	298	298	298	298	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1524.1	1511.6	1515.6	1512.2	1504.9
5°	1519.6	1502.6	1507.6	1503.5	1500.9
7.5°	1504.1	1488.5	1492.1	1487.8	1486.2
10°	1490.2	1474.6	1478.2	1472.8	1470.2
12.5°	1474.2	1457.5	1461.1	1455.7	1454.2
15°	1446.2	1427.9	1430.1	1427.4	1424.8
17.5°	1413.6	1395.0	1395.4	1391.1	1390.6
20°	1390.1	1370.5	1368.7	1363.4	1366.0
22.5°	1364.4	1343.8	1342.0	1334.6	1338.3
25°	1322.0	1299.8	1297.9	1290.0	1293.9
27.5°	1272.8	1250.9	1250.9	1239.8	1244.0
30°	1236.5	1215.6	1217.8	1204.6	1209.8
32.5°	1198.1	1179.3	1180.4	1167.2	1172.4
35°	1136.4	1120.7	1120.3	1109.8	1113.7
37.5°	1073.3	1059.5	1057.3	1051.2	1052.2
40°	1029.5	1017.8	1013.5	1009.5	1009.5
42.5°	983.6	972.9	968.7	965.7	964.6
45°	913.4	905.5	901.3	898.6	897.3
47.5°	843.9	836.6	833.0	831.1	829.8
50°	795.9	790.6	789.2	785.1	783.8
52.5°	747.8	744.7	743.2	738.1	736.8
55°	677.0	675.7	677.0	667.6	666.3
57.5°	603.3	605.4	609.7	597.1	594.0
60°	554.2	559.4	564.8	550.0	544.8
62.5°	504.0	512.3	520.0	503.0	495.7
65°	428.6	441.7	450.0	432.3	418.0
67.5°	356.0	372.2	382.2	363.1	346.9
70°	305.8	324.1	335.2	316.1	297.8
72.5°	262.0	282.4	291.4	273.3	255.0
75°	197.6	215.9	227.0	211.9	192.3
77.5°	140.2	157.4	166.6	153.5	137.3
80°	102.8	121.1	128.2	117.2	104.2
82.5°	72.9	88.1	92.9	86.3	77.4
85°	33.4	43.8	49.4	46.7	44.1
87.5°	8.9	17.0	23.4	21.8	22.9
90°	1.9	5.6	15.3	7.6	7.6
92.5°	8.0	38.7	85.6	37.9	24.5
95°	19.1	75.1	250.3	129.0	87.9
97.5°	33.2	82.6	374.5	297.8	219.3
100°	43.9	88.8	412.7	418.2	324.8
102.5°	53.1	95.0	423.4	520.9	441.0
105°	68.8	104.3	422.2	641.0	598.0
107.5°	84.8	117.7	398.2	703.3	713.8
110°	95.5	125.4	378.3	719.4	764.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	106.2	134.6	360.0	709.2	778.0
115°	122.3	148.4	338.2	674.7	770.0
117.5°	137.9	161.9	323.3	626.8	732.5
120°	147.1	169.5	317.2	594.6	697.4
122.5°	156.3	178.7	312.6	562.5	663.7
125°	170.0	190.6	307.6	519.9	613.3
127.5°	181.1	202.0	303.4	485.5	564.4
130°	187.2	209.7	301.9	464.0	536.9
132.5°	193.4	215.8	300.3	445.5	510.9
135°	202.5	223.1	298.0	419.7	475.7
137.5°	212.1	232.2	297.7	400.4	446.3
140°	219.7	238.4	296.1	385.0	428.0
142.5°	225.8	243.0	296.1	374.2	411.2
145°	235.0	249.9	294.2	357.9	385.9
147.5°	244.2	258.7	294.2	344.4	367.6
150°	250.3	263.4	294.2	336.7	355.4
152.5°	256.4	266.5	294.2	330.5	344.7
155°	265.6	273.0	294.2	323.1	332.4
157.5°	272.4	279.5	294.2	316.5	323.3
160°	277.0	282.6	294.2	313.4	317.2
162.5°	281.6	285.7	294.2	310.4	314.1
165°	286.6	290.3	294.2	305.8	309.5
167.5°	291.2	293.0	296.1	303.8	305.3
170°	294.2	296.1	296.1	303.8	303.8
172.5°	295.8	296.1	296.1	302.2	300.7
175°	298.0	298.0	296.1	300.0	300.0
177.5°	298.0	298.0	296.5	299.5	298.0
180°	298.0	298.0	298.0	298.0	298.0

(END OF REPORT)